Chapter 34 Standardized Test Prep

TEST TIP Allow a few minutes at the end of the test-taking period to check for mistakes made in marking answers.

Science Concepts

1. Muscle cells are also known as
- **A** myosin.
- **B** myofibrils.
- **C** sarcomeres.
- **D** muscle fibers.

2. Which of the following is the protein that makes up hair and nails?
- **F** sebum
- **G** keratin
- **H** melanin
- **J** collagen

3. What is a melanoma?
- **A** an infected skin pore
- **B** a fungal infection of the skin
- **C** a tumor that forms in pigment-producing skin cells
- **D** a tumor that forms in skin cells that do not produce pigment

4. Tissues working together form
- **F** cells.
- **G** organs.
- **H** colonies.
- **J** organ systems.

5. A mature bone cell is called an
- **A** osteon.
- **B** osteo cell.
- **C** osteocyte.
- **D** osteoblast.

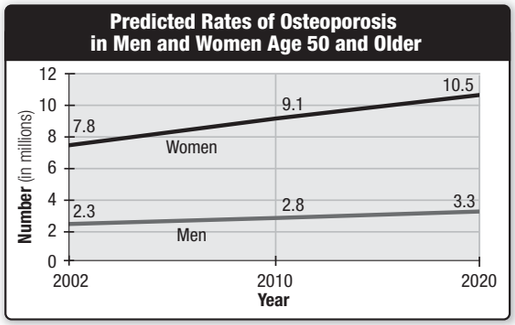
6. A myostatin knockout mouse has
- **F** less muscle than a normal mouse.
- **G** more muscle than a normal mouse.
- **H** more myostatin than a normal mouse.
- **J** more muscle producing genes than a normal mouse.

Writing Skills

7. Short Response Name the four types of tissues, and identify one place in the body where each type of tissue is found.

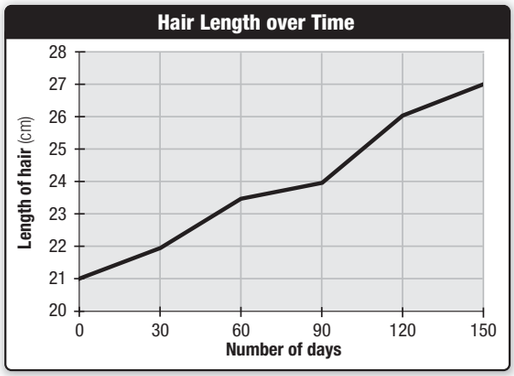
Using Science Graphics

The graph shows the number of men and women who have, or are predicted to have, osteoporosis. Use the graph to answer the following question.



8. How many more women than men are predicted to have osteoporosis in the year 2020?
- **A** 3.3 million
- **B** 6.2 million
- **C** 7.2 million
- **D** 10.5 million

The graph shows the measurement of hair length over time. Use the graph to answer the following question(s).



9. How much did the person's hair grow between the beginning of the study and the end?
- **F** 5 cm
- **G** 6 cm
- **H** 6 inches
- **J** 26 cm

State Resources



For specific resources for your state, visit go.hrw.com and type in the keyword **HSHSTR**.

Test Practice with Guided Reading Development

Answers

1. D **2.** G **3.** C
4. G **5.** C **6.** G
7. Epithelial tissue is found in the skin, nervous tissue is found in nerves, connective tissue is found in fat, and muscle tissue is found in muscles.
8. C **9.** G

TEST DOCTOR

Question 1 Students must be familiar with muscle anatomy to answer this question correctly. **A** is incorrect, because myosin is a protein filament, not a cell. **B** is incorrect, because myofibrils are found *within* muscle cells. **C** is incorrect, because sarcomeres are also protein filaments, not cells. **D** is the correct name for a muscle cell.

Question 3 Students need to make the association between melanoma and melanin to answer this question. **A** and **B** are incorrect because they are not related to cancer pigmentation. **C** is correct! Melanoma is uncontrolled cell growth in skin cells that produce pigments. **D** is incorrect, because cells producing melanin are affected.

Question 8 Students must recognize that the answer is the *difference* between the values for males and females. Subtracting 3.3 million for males from 10.5 million for females gives 7.2 million additional female cases. Thus, **A, B,** and **D** are incorrect, and **C** is correct.

Question 9 Students must subtract the first data point from the last data point to get the correct answer. 27 cm – 21 cm = 5 cm (growth for the 150 days of the study). Thus, **F, H,** and **J** are incorrect, and **G** is correct.